

**Source:** TSG SA1  
**Title:** CR to 22.100 on SoLSA applicability  
**Document for:** Approval  
**Agenda Item:** 5.1.3

Doc-1st-Level	Status-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version - Current	Version-New
SP-000064		22.100	029		R99	SoLSA not applicable for UMTS release 99	F	3.5.0	3.6.0

# CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

**22.100 CR 029**

Current Version: **3.5.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **SA#7**  
list expected approval meeting # here ↑

for approval   
for information

strategic   
non-strategic  (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:**

(at least one should be marked with an X)

(U)SIM  ME  UTRAN / Radio  Core Network

**Source:**

TSG SA1

**Date:** 11/02/00

**Subject:**

SoLSA not applicable for UMTS release 99

**Work item:**

**Category:**

(only one category shall be marked with an X)

F Correction   
A Corresponds to a correction in an earlier release   
B Addition of feature   
C Functional modification of feature   
D Editorial modification

**Release:** Phase 2   
Release 96   
Release 97   
Release 98   
Release 99   
Release 00

**Reason for change:**

**Clauses affected:**

7

**Other specs affected:**

Other 3G core specifications  → List of CRs:  
Other GSM core specifications  → List of CRs:  
MS test specifications  → List of CRs:  
BSS test specifications  → List of CRs:  
O&M specifications  → List of CRs:

**Other comments:**



help.doc

<----- double-click here for help and instructions on how to create a CR.

# 3G TS 22.100 3.5.0 (1999-12)

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*Technical Specification*

## **3rd Generation Partnership Project; Technical Specification Group Services and System Aspects UMTS phase 1 Release 99 (3G TS 22.100 version 3.5.0)**



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## 7 UTRAN capabilities

NOTE : The term performance refers in this clause to the realisation of the QoS objectives inside the UTRAN.

UTRAN capabilities for UMTS are the complete set of radio access bearer capabilities and radio access bearer control specified in UMTS 22.105. The UTRAN shall have the following capabilities :

- 1) A UTRAN shall be contained within only one UMTS network.
- 2) The UTRAN shall support the set-up, re-negotiation and clearing of connections with a range of traffic and performance characteristics. The re-negotiation of QoS attributes / bearer attributes may result from an upper layer request or a change in the radio conditions (handover, cell load modification,...) and may be mobile station (e.g. by an application or the user via an application) or network initiated. It shall be possible for the UTRAN to apply the following traffic policing mechanisms such as :
  - . connection admission control (CAC) during connection set-up and re-negotiation,
  - . flow control (FC) on a connection during its lifetime,
  - . usage parameter control (UPC) on a connection during its lifetime..
- 3) The UTRAN shall support radio access bearers for broadcast and multicast applications.
- 4) The range of traffic and performance characteristics that shall be supported by are indicated in TS 22.105.
- 5) The UTRAN shall allow one mobile termination to handle more than one radio access bearer service simultaneously. It is nevertheless expected that the terminal and network capabilities will put some limitations on the number of radio access bearer services that can be handled simultaneously. It shall be possible for each radio access to have independent traffic and performance characteristics.
- 6) Seamless handover of active radio access bearer service(s) from a single mobile termination, between cells of one UTRAN shall be supported. This shall result in an imperceptible loss of speech (if any) for the user of telephony services and without incurring degradation of QoS for data services.
- 7) At least one Capability Class shall be standardised for mobile terminals supporting more than one UTRA mode (e.g. UTRA FDD and TDD modes). It shall support monitoring of the different types of cells in idle mode (cell reselection procedure) and active mode (handover preparation procedure).
- 8) For UMTS networks composed of UTRANs with different UTRA modes, the cell selection and the paging procedures shall accommodate to the fact that service areas may be covered by cells supporting one specific mode (e.g. FDD or TDD mode), and cells supporting more than one mode (e.g. FDD and TDD modes).
- 9) Handover of one mobile termination handling one or more radio access bearer services between cells of two UTRANs using different UTRA modes and operated by one single UMTS network operator shall be supported in both directions. Furthermore, handover between cells using two different UTRA modes should be supported similarly to handover within one mode.
- 10) The UTRAN shall facilitate determination of the location of a UMTS mobile termination. The realisation of a positioning service can be determined by several methodologies, namely *mobile-based positioning*, *network-based positioning*, or a *hybrid position* architecture. It shall be possible for the location precision to be a UMTS network operator choice, with the precision of the location varying from one part of the service area to another. It shall be possible to achieve a minimum precision of around 50 meters in all types of terrestrial radio environments. Location requirements are detailed in TS 22.071 and in UMTS 22.105 subclause 8.5.
- ~~11) The UTRAN shall support the Localised Service Area (LSA) concept. It shall facilitate user dependent radio resource selection based on LSA (e.g. when user is located at his office, radio coverage provided with indoor radio solutions should be preferred). Corresponding GSM feature has been specified in GSM 02.43.~~
- 11~~2~~) The optimisation of the UTRAN radio interface shall be based upon the objectives expressed in UMTS 22.105 clause 5.
- 12~~3~~) Standardised protocols shall be defined for the operation, administration and maintenance of each of the UTRAN components in UMTS phase 1 in cooperation with ETSI TMN.
- 13~~4~~) The USIM requirements defined for later releases of UMTS should be taken into account in the design of UTRAN (for any impact).

